## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

## **LISTING OF CLAIMS**

1. (Currently Amended) A semiconductor device comprising:

a semiconductor layer which contains an element isolation region and adjacent doped layers isolated from each other by the element isolation region; and

a gate connection layer formed over the element isolation region and the adjacent doped layers,

wherein a depth X of the element isolation region and a width Y of the element isolation region satisfy an equation represented by X/Y = 1.33 to 1.67.

- 2. (Original) The semiconductor device according to Claim 1, wherein the depth of the element isolation region is in a range of 0.32 to 0.40  $\mu m$ .
- (Original) The semiconductor device according to Claim 1, wherein the element isolation region further comprises a trench element isolation region.
- 4. (Original) The semiconductor device according to Claim 3, wherein the element isolation region comprises a trench formed in the semiconductor layer and an insulating layer provided in the trench.

- (Original) The semiconductor device according to Claim 4,
   wherein the insulating layer further comprises an HDP-CVD insulating

  layer.
- (Original) The semiconductor device according to Claim 4,
   wherein the insulating layer further comprises a TEOS plasma CVD insulating layer.
  - (Original) The semiconductor device according to Claim 4,
     wherein the insulating layer further comprises an SOG insulating layer.
- 8. (Original) The semiconductor device according to Claim 1,
  wherein the adjacent doped layers further comprise two doped layers
  having the same conductivity.
- 9. (Original) The semiconductor device according to Claim 1,
  wherein the adjacent doped layers further comprise two doped layers
  which have the same conductivity and which are contained in respective memory cells
  adjacent to each other.

a semiconductor layer;
adjacent doped layers on the semiconductor layer; and
an element isolation region of the substrate isolating the adjacent doped
layers from each other; and

(Currently Amended) A semiconductor device comprising:

a gate connection layer formed over the element isolation region and the adjacent doped layers;

wherein a depth X of the element isolation region and a width Y of the element isolation region satisfy an equation represented by X/Y = 1.33 to 1.67.

- 11. (Original) The semiconductor device according to Claim 10, wherein the depth of the element isolation region is in a range of 0.32 to 0.40  $\mu m$ .
- 12. (Original) The semiconductor device according to Claim 10,
  wherein the element isolation region further comprises a trench element isolation region.
- 13. (Original) The semiconductor device according to Claim 12, wherein the element isolation region comprises a trench formed in the semiconductor layer and an insulating layer provided in the trench.
- 14. (Original) The semiconductor device according to Claim 10, wherein the adjacent doped layers further comprise two doped layers having the same conductivity.

10.

15. (Original) The semiconductor device according to Claim 10,
wherein the adjacent doped layers further comprise two doped layers
which have the same conductivity and which are contained in respective memory cells
adjacent to each other.